Pacific Islands - Online Climate Outlook Forum (OCOF) No. 106

Country Name: Samoa

TABLE 1: Monthly Rainfall

Station (include data period)			June 2016				
	April 2016 Total	May 2016 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Afiamalu	749.6	420.6	141.8	134.0	236.7	167.8	25/63
Nafanua	585.7	464.1	154.3	102.0	135.3	118.4	32/45
Apia	650.0	389.9	81.5	87.4	147.2	115.8	41/127
Faleolo	397.0	199.3	41.4	58.3	111.2	78.4	11/55

TABLE 2: Three-monthly Rainfall
April to June 2016
[Please note that the data used in this verification should be sourced from table 3 of OCOF #102]

Station	Three-month Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking	Forecast probs.* (include LEPS)	Verification[*] (Consistent, Near-consistent Inconsistent?)
Afiamalu	1312.0	621.7	833.7	732.9	59/62	**79**/13/8 (8.8)	Inconsistent
Nafanua	1204.1	423.6	579.1	519.6	44/44	**62**/16/22 (-0.8)	Inconsistent
Apia	1121.4	332.3	480.5	409.5	127/127	**45**/31/24 (-3.7)	Inconsistent
Faleolo	637.7	271.5	382.6	324.5	49/53	**69**/23/8 (7.5)	Inconsistent

Period:*below normal/normal/above normal

Predictors and Period used for April to June 2016 Outlooks (refer to OCOF #102)**: Nino 3.4 value from December to February 2016.**

TABLE 3: Seasonal Climate Outlooks using SCOPIC for August to October 2016

Predictors and Period used: Nino 3.4 value from April to June 2016.

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[*] Forecast is <u>consistent</u> when observed and predicted (tercile with the highest probability) categories coincide (are in the same tercile).
Forecast is <u>near-consistent</u> when observed and predicted (tercile with the highest probability) differ by only one category (i.e. terciles 1 and 2 or terciles 2 and 3).
Forecast is <u>inconsistent</u> when observed and predicted (tercile with the highest probability) differ by two categories (i.e. terciles 1 and 3).

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Afiamalu	56	720.7	44		-1.0%	53.7%
Nafanua	69	549.1	31		1.2%	51.2%
Apia	68	439.2	32		3.7%	62.1%
Faleolo	64	350.7	36		0.8%	50.0%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Afiamalu	43	582.2	32	832.5	25	1.1%	42.6%
Nafanua	39	471.8	29	619.0	32	-2.2%	20.9%
Apia	48	361.3	28	529.1	24	2.3%	37.9%
Faleolo	47	281.8	26	421.8	27	0.6%	38.5%

TABLE 4: Seasonal Climate Outlooks using POAMA2 for

August to October 2016

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Apia	18	430	5	513	77		

Summary Statements

Rainfall for June 2016:

"Normal" rainfall was registered at Afiamalu and "above normal" was recorded at Nafanua. "Below normal" rainfall was received at both Apia and Faleolo stations.

Accumulated rainfall for April to June 2016, including outlook verification:

All stations recorded "above normal" rainfall.

The outlook verification was "inconsistent" for all stations.

Outlooks for August to October 2016:
    SCOPIC:
- The outlook for Afiamalu and Apia favours "below normal", with "normal" the next most likely.
- The outlook for Nafanua and Faleolo shows the most likely outcome is "below normal", with "above normal" the next most likely.

The confidence of the model is "low to very low"

2. POAMA:
The outlook favours "above normal" rainfall for Apia in the next coming season.

NB: The X LEPS % score has been categorised as follows:

Very Low: X < 0.0   Low: 0 ≤ X < 5   Moderate 5 ≤ X < 10   Good: 10 ≤ X < 15   High: 15≤ X < 25

Very High: 25 ≤X < 35   Exceptional: X ≥ 35